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# MOCKUP NUMBER 6, SERVICE MODULE AND ADAPTER INTERFACE SPECIFICATION PROJECT APOLLO SPACECRAFT (Unclassified)

28 February 1962

4.5.2.1

Approved by

J. W. Paup
Vice President and Apollo Program Manager

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## 1. SCOPE

1.1 Scope.- This specification covers a Service Module and Adapter Interface Mockup of the Project Apollo Spacecraft.

## 2. APPLICABLE DOCUMENTS

2.1 General.- The following documents shall form a part of this specification.

Government Documents.-

Manuals

| | |
|---|---|
| ARDCM-80-1, Volume 1 | Handbook of Instructions for Aircraft Designers |

## 3. REQUIREMENTS

3.1 Mockup Arrangement.- The Service Module and Adapter Interface Mockup shall consist of simulated mating surfaces of the service module and adapter with mechanical and electrical connections.

3.1.1 Service Module Interface.- The service module interface shall accommodate the mating surface, mating hardware and electrical connections of the adapter. The service module interface shall maintain critical dimensions and tolerances.

3.1.2 Adapter Interface.- The adapter interface shall accommodate the mating surface, hardware and electrical connections of the service module interface. The adapter interface shall maintain critical dimensions and tolerances.

3.2 Construction.- Materials and processes used in the construction of the mockup shall provide an inexpensive mockup of the service module and adapter interface. Materials used shall support the required installations, and shall withstand handling and transportation. Assemblies, parts, and components of the mockup shall be rejected items of equipment,

prototypes or reasonable facsimiles, fabricated to the size and shape of the actual equipment. The mockup configuration shall be as shown on figure 1. ARDCM-80-1, Volume 1 shall be used for guidance and reference material in the design and construction of the mockup.

3.3 Performance.- The mockup shall be designed and constructed to demonstrate:

(a) Compatibility of mating surfaces and parts

(b) Separation characteristics

4. QUALITY ASSURANCE PROVISIONS (NOT APPLICABLE)

5. PREPARATION FOR DELIVERY

5.1 Mockup Delivery.- The mockup shall be used at the contractor's facility.

6. NOTES

6.1 Intended Use.- The mockup shall be used to aid S&ID Engineering design evaluation.

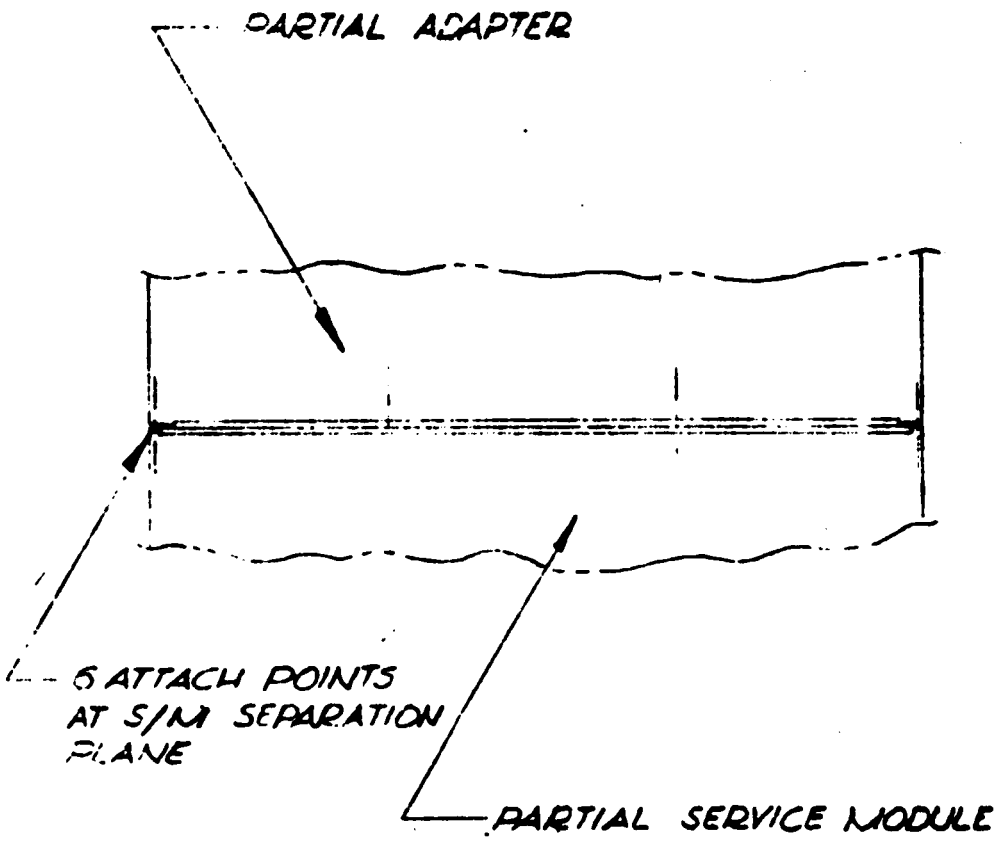


Figure 1. Partial Service and Adapter Mockup

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## Appendix I-A

## Contractor-Furnished Equipment, Contractor-Installed

| Item No. | Quantity | Description | Part No. |
|---|---|---|---|
| 1 | | Umbilicals | |



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